

**Docket No.: 4468-008B****Application No.: 10/760,425****IN THE CLAIMS****1-9 (Cancelled).**

10. (Previously Presented) A correlation system including a frequency adding means having a predetermined plurality  $n$  of multiplying means (EXOR), an adder, a spreader, and a correlator, wherein

the predetermined plurality  $n$  of multiplying means (EXOR) each receives a corresponding frequency component ( $F1 - Fn$ ) and a symbol data  $DO(t)$  as a base and multiplies both of the corresponding frequency component ( $F1-Fn$ ) and said symbol data  $DO(t)$  to output a multiplied symbol data  $D1(t) - Dn(t)$ , wherein  $n$  and  $t$  are integers,

the adder receives said multiplied symbol data  $D1(t) - Dn(t)$  from a respective multiplying means (EXOR) and said symbol data  $DO(t)$  as the base and performs an adding process for said multiplied symbol data and said symbol data  $DO(t)$  to output a resultant additional symbol data  $D(t)$ ,

the spreader receives a spread signal of said additional symbol data  $D(t)$  and superposes thereon a spread code  $L(t)$  to output a corrected reference signal  $R(t)$ , and

the correlator receives said corrected reference signal  $R(t)$  and a measurement signal  $S(t)$  and takes a correlation between said corrected reference signal  $R(t)$  and said measurement signal  $S(t)$  to output a correlation output signal.

**11. (canceled)**

12. (original) A correlation system according to claim 10, wherein the measurement signal  $S(t)$  is a reception signal of a spread signal spectrum spread.

**13. (canceled).**

14. (original) A correlation system according to claim 10, wherein the measurement

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signal  $S(t)$  is a spectrum spread signal of a W-CDMA system.

15. (canceled).

16. (currently amended) A correlation method, comprising:

receiving a corresponding frequency component ( $F1 - Fn$ ) and a symbol data  $DO(t)$  as a base and multiplying both of the corresponding frequency component ( $F1-Fn$ ) and said symbol data  $DO(t)$  ( ~~$DO(t)$~~ ) to output a multiplied symbol data  $D1(t) - Dn(t)$ , at each of a predetermined plurality  $n$  of multiplying devices (EXOR), wherein  $n$  and  $t$  are integers,

receiving said multiplied symbol data  $D1(t) - Dn(t)$  from a respective multiplying device (EXOR) and said symbol data  $DO(t)$  as the base and adding said multiplied symbol data and said symbol data  $DO(t)$  to output a resultant additional symbol data  $D(t)$ ,

receiving a spread signal of said additional symbol data  $D(t)$  and superposing thereon a spread code  $L(t)$  to output a corrected reference signal  $R(t)$ , and

receiving said corrected reference signal  $R(t)$  and a measurement signal  $S(t)$  and taking a correlation between said corrected reference signal  $R(t)$  and said measurement signal  $S(t)$  to output a correlation output signal.

17. (canceled)

18. (currently amended) A computer-readable medium embodying a program of instructions for execution by a computer to perform a correlation method, comprising:

receiving a corresponding frequency component ( $F1 - Fn$ ) and a symbol data  $DO(t)$  as a base and multiplying both of the corresponding frequency component ( $F1-Fn$ ) and said symbol data  $DO(t)$  ( ~~$DO(t)$~~ ) to output a multiplied symbol data  $D1(t) - Dn(t)$ , at each of a predetermined plurality  $n$  of multiplying devices (EXOR), wherein  $n$  and  $t$  are integers,

receiving said multiplied symbol data  $D1(t) - Dn(t)$  from a respective multiplying device (EXOR) and said symbol data  $DO(t)$  as the base and adding said multiplied symbol data and said

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symbol data  $DO(t)$  to output a resultant additional symbol data  $D(t)$ ,

receiving a spread signal of said additional symbol data  $D(t)$  and superposing thereon a spread code  $L(t)$  to output a corrected reference signal  $R(t)$ , and

receiving said corrected reference signal  $R(t)$  and a measurement signal  $S(t)$  and taking a correlation between said ~~corrected reference~~ corrected reference signal  $R(t)$  and said measurement signal  $S(t)$  to output a correlation output signal.

**19-20. (canceled)**

**21. (previously presented)** A correlation system including a frequency adding device having a predetermined plurality  $n$  of multiplying devices (EXOR), an adder, a spreader, and a correlator, wherein

the predetermined plurality  $n$  of multiplying devices (EXOR) each receives a corresponding frequency component ( $F1 - Fn$ ) and a symbol data  $DO(t)$  as a base and multiplies both of the corresponding frequency component ( $F1-Fn$ ) and said symbol data  $DO(t)$  to output a multiplied symbol data  $D1(t) - Dn(t)$ , wherein  $n$  and  $t$  are integers,

the adder receives said multiplied symbol data  $D1(t) - Dn(t)$  from a respective multiplying device (EXOR) and said symbol data  $DO(t)$  as the base and performs an adding process for said multiplied symbol data and said symbol data  $DO(t)$  to output a resultant additional symbol data  $D(t)$ ,

the spreader receives a spread signal of said additional symbol data  $D(t)$  and superposes thereon a spread code  $L(t)$  to output a corrected reference signal  $R(t)$ , and

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the correlator receives said corrected reference signal  $R(t)$  and a measurement signal  $S(t)$  and takes a correlation between said corrected reference signal  $R(t)$  and said measurement signal  $S(t)$  to output a correlation output signal.